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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,474	05/11/2007	Partrick Schafer	AP 10890	8551
	7590 09/26/200 L TEVES, INC.		EXAMINER	
ONE CONTINI	ENTAL DRIVE		LI, CE LI	
AUBURN HILLLS, MI 48326-1581			ART UNIT	PAPER NUMBER
			3661	
			MAIL DATE	DELIVERY MODE
			09/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/590,474	SCHAFER ET AL.
Office Action Summary	Examiner	Art Unit
	CE LI	3661
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 23 This action is FINAL . 2b)☑ Th Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-16 is/are pending in the application 4a) Of the above claim(s) 1-8 is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 9-16 is/are rejected. 7) ☐ Claim(s) 9 is/are objected to. 8) ☐ Claim(s) are subject to restriction and are subject to restriction and are subject to restriction and are subjected to by the Examination Papers 9) ☐ The specification is objected to by the Examination The drawing(s) filed on 23 August 2006 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. 11) ☐ The oath or declaration is objected to by the Examination is objected	n from consideration. /or election requirement. ner. e: a)⊠ accepted or b)□ objected are drawing(s) be held in abeyance. Selection is required if the drawing(s) is objected.	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
,—		7,150,511 51 151 111 11 15 1521
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat iority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 08/23/2006.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

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DETAILED ACTION

Claim Objections

1. Claim 9 is objected to because of the following informalities: Line 3 of Claim 9 recites "quantitie" which appears to be a misspelling of the word "quantity". Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

3. Claim 9-16 are rejected under 35 U.S.C. 102(b) as being *anticipated* by Matthias et al (DE 10162689).

Matthias discloses a method and a device for monitoring signal processing units for sensors (Abstract), comprising:

detecting at least one individual process control quantitie or process measured values (Figure 1, 101-105);

evaluating redundant processing of sensor data in two identical signal processing units (Figure 1: 108, 110, 112 and 109, 111, 115);

checking for plausibility, independently and separately from one another (Translation page 4, 9), by at least two processing devices (Figure 1: 108, 109) in two evaluation devices (Figure 1: 110, 111);

and transmitting the sensor data between one processing device (Figure 1: 108, 109)) and one evaluation device (Figure 1: 110, 111) through separate signal lines (Figure 1: Data1, Data 2).

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wherein the sensor data that is separately evaluated and checked for plausibility (Translation page 4, 9) in every evaluation device (Figure 1: 110, 111) is exchanged by way of an interface (Figure 1: cross check) between the evaluation devices (Figure 1: 110, 111).

wherein sensor data and the condition information of a specific other evaluation unit that have been evaluated and checked for plausibility (Translation page 4, 9) are sent to a control device (Figure 1: 117) of a vehicle by each evaluation device (Figure 1: 110, 111), independently of the other one.

wherein the sensor data and condition information of the other evaluation unit (Figure 1: 110, 111), which have been evaluated and checked for plausibility (Translation page 4, 9), are transmitted to the control device (Figure 1: 117) of the vehicle by way of internal separate signal lines (Figure 1: D1i, D2i) by way of one data bus each (Figure 1: 116).

A device (Figure 1) for monitoring signal processing units for sensors, which determine the individual process control quantities or process measured values of a process (Figure 1, 101-105), the device comprising: two or more identical signal processing units (Figure 1: 108, 110, 112 and 109, 111, 115) for redundant processing of data; and two or more processing devices (Figure 1: 108, 109) and two evaluation devices (Figure 1: 110, 111), in which sensor data is evaluated and checked for plausibility (Translation page 4, 9) independently of and separately from one another, wherein each processing device (Figure 1: 108, 109) is connected with a specific evaluation device (Figure 1: 110, 111) by way of separate signal lines (Figure 1: Data1, Data 2), and the sensor data is transmitted between the one processing device (Figure 1: 108, 109) and the specific evaluation device (Figure 1: 110, 111) by way of the separate signal line (Figure 1: Data1, Data 2).

wherein the sensor data, which is separately evaluated and checked for plausibility (Translation page 4, 9) in every evaluation device (Figure 1: 110, 111), is exchanged by way of an interface (Figure 1: cross check) between the evaluation devices (Figure 1: 110, 111).

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wherein each evaluation device (Figure 1: 110, 111), independently of the others, sends the sensor data and the condition information of the other evaluation unit, which are evaluated and checked for plausibility (Translation page 4, 9), to a vehicle control device (Figure 1: 117).

wherein each evaluation unit (Figure 1: 110, 111) is connected with a data bus (Figure 1: 112, 115) by way of an internal separate signal line (Figure 1: D1i, D2i), and the sensor data and condition information of the specific other evaluation unit (Figure 1: 112, 115) that have been evaluated and checked for plausibility (Translation page 4, 9) are transmitted to the vehicle control device by way of the specific data bus (Figure 1: 112, 115).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Giers (US 6,410, 993) discloses two identical circuits with redundant data processing for sensors.

Bohm et al (US 6,345, 225) discloses a redundant detection of a drivers brake pedal actuation by means of a suitable sensor system.

Donat et al (US 6,396,398) discloses a redundant method for the evaluation of sensor signals.

Muller et al (US 5,654,888) discloses two computer elements for carrying out at least the same control function.

Lohberg et al (US 7,167,785) discloses a system for detecting safety-critical measured quantities, comprising at least two independent measuring channels with sensors that are independent of one another and elements for verifying a malfunction or a failure of the measuring channels.

Golzer et al (US 5,339,782) discloses two control units monitor the measuring device on the basis of the output signals.

Knueppel et al (US 7,324,900) discloses conducting a plausibility check by checking the states of one or more sensors in a system with respect to one or more selected fixed parameters.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CE LI whose telephone number is (571)270-5564. The examiner can normally be reached on Monday to Friday, 9AM-5PM, EST, every other Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (571)272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Thomas G. Black/

Supervisory Patent Examiner, Art Unit 3661